BLUEPRINTS PREFACE STAR PROGRAM CALIFORNIA STANDARDS TESTS SCIENCE

These are the blueprints for the STAR California Standards Test (CST) science multiple-choice tests. The "Standards Assessed" column shows the standards tested and numbers of questions included on the science CSTs. As the blueprints indicate, the tests consist of 66 multiple-choice questions, including 60 operational questions and 6 embedded field test questions. Except for the Investigation and Experimentation standards, ✓ marks indicate the standards assessed.

A distinction is made between the content statement that precedes each set of standards and the standards that are actually being assessed, i.e.,

- 1. The periodic table displays the elements in increasing atomic number and shows how periodicity of the physical and chemical properties of the elements relates to atomic structure
 - a. Students know how to relate the position of an element in the periodic table to its atomic number and atomic mass.

At the high school level, science is assessed by discipline rather than grade level. Blueprints are provided for the discipline-specific tests: Biology, Chemistry, Earth science, and Physics as well as for the Integrated/Coordinated Science 1, 2, 3, 4 tests. Standards that all students *should have the opportunity to learn*, identified with an asterisk (*), are **not tested**, though they are important to the comprehension of the strand. In addition, reference sheets for chemistry and physics are provided and reflect the decision not to test asterisked standards. Also, a revision to the 2005 Physics Reference Sheet has been made for the formula, First Law of Thermodynamics, to include both expressions $\Delta U = Q + W$ (on the system) and $\Delta U = Q - W$ (by the system).

At the elementary level, science is assessed at grade 5 and the Fifth Grade Science blueprint is provided for this test. The test covers the grades 4 and 5 science standards. Forty percent of the test assesses grade 4 standards and sixty percent of the test assesses grade 5 standards. As with the high school level tests, Investigation and Experimentation standards comprise ten percent of the test questions. The Fifth Grade Science blueprint contains a standard that, while important, is not assessable in a multiple-choice format. This standard has been clearly identified with the notation NA*. In addition, reference sheets, including an abridged periodic table, the Mohs Hardness Scale, and a mineral identification table, are provided.